

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,373,652 B1  
APPLICATION NO. : 09/653381  
DATED : May 13, 2008  
INVENTOR(S) : Bayrakeri et al.

Page 1 of 5

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The title page showing the illustrative figure should be deleted to be replaced with the attached title page.

On Page 2, item (56), under "U.S. Patent Documents", in column 1, line 54, below "5,260,778 A 11/1993 Kauffman et al. 358/86" delete "4,706,121 A 12/1993 Young 358/142".

On Page 2, item (56), under "U.S. Patent Documents", in column 2, line 60, after "Rauch et al." insert -- 348/563 --.

In the drawings:

On Sheet 1 of 33, in Fig. 1 (Box 118), line 3, delete "MODULADOR" and insert -- MODULATOR --, therefor.

On Sheet 1 of 33, in Fig. 1 (Box 116), line 1, delete "MULTIPLEYER" and insert -- MULTIPLEXER --, therefor.

On Sheet 2 of 33, in Fig. 2 (Box 276-2), line 1, delete "DINAMIC" and insert -- DYNAMIC --, therefor.

On Sheet 7 of 33, in Fig. 5A, line 4, delete "ACIVE" and insert -- ACTIVE --, therefor.

On Sheet 7 of 33, in Fig. 5A, line 5, delete "AVTIVE" and insert -- ACTIVE --, therefor.

On Sheet 8 of 33, in Fig. 6A, line 5, before "8:04" delete "311B" and insert -- 311C --, therefor.

On Sheet 25 of 33, in Fig. 22 (Above Reference Numeral 2250), line 4, delete "2210j" and insert -- 2210h --, therefor.

On Sheet 31 of 33, in Fig. 28 (Box 2210h), line 2, delete "WORL" and insert -- WORLD --, therefor.

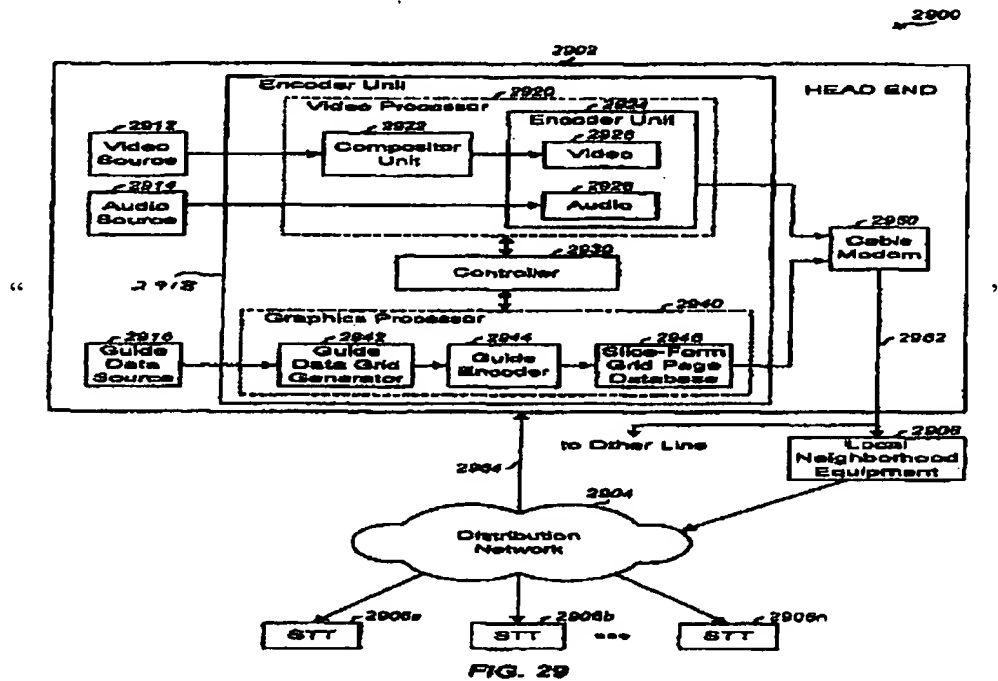
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Page 2 of 5

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On Sheet 32 of 33, in Fig. 29, delete



and

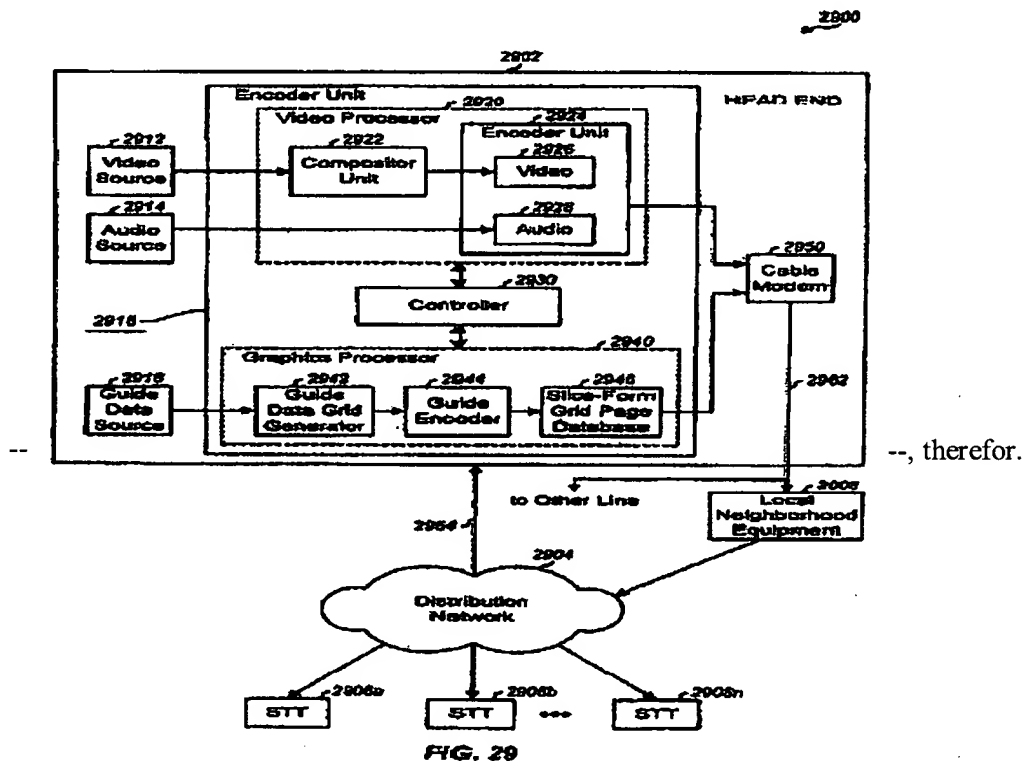
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insert



In column 4, line 37, after "interface" insert -- . --.

In column 9, delete "ofobject" and insert -- of object --, therefor.

In column 14, line 30, delete "PED" and insert -- PID --, therefor.

In column 17, line 66, delete "attitude." and insert -- attitude..." --, therefor.

In column 19, line 35, delete "EPG" and insert -- IPG --, therefor.

In column 20, line 48, delete "sections," and insert -- sections --, therefor.

In column 20, line 54, delete "channel (s)" and insert -- channel(s) --, therefor.

In column 21, line 29, after "system)" insert -- . --.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 24, line 10, delete "di spaly" and insert -- display --, therefor.

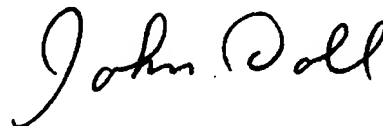
In column 27, line 58, delete "GOPs" and insert -- GOPs --, therefor.

In column 35, lines 7-22, delete "The video encoder 2926 receives the video sequence from the compositor unit 2922 and forms a (slice-based) bitstream (e.g., an MPEG-2 compliant bitstream) for the video portion of an IPG page. In an embodiment, the video encoder 2926 "pads" the graphics portion (illustratively the left half portion of the IPG page corresponding to the guide listing) with null data. The null data may be replaced by the graphics grid slices (e.g., at a later step, within the LNE). In this embodiment, the video encoder 2926 is designed for, and efficiently processes only motion video information, excluding the graphics data. The audio encoder 2928 receives the audio signals and forms a bitstream for the audio portion of the IPG page. The encoder unit 2924 produces one or more elementary streams containing picture-based or slice-based encoded video and audio information." and insert the same on Col. 35, Line 6, after "encoders)." as a continuation of the same Paragraph.

In column 40, line 6, in Claim 23, delete "orie" and insert -- one --, therefor.

Signed and Sealed this

Ninth Day of June, 2009



JOHN DOLL  
*Acting Director of the United States Patent and Trademark Office*

(12) **United States Patent**  
**Bayrakeri et al.**

(10) Patent No.: **US 7,373,652 B1**  
 (45) Date of Patent: **May 13, 2008**

(54) **SERVER-CENTRIC SEARCH FUNCTION IN AN INTERACTIVE PROGRAM GUIDE**

(75) Inventors: **Sadik Bayrakeri**, Foster City, CA (US);  
**Donald F. Gordon**, Los Altos, CA (US);  
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 Philadelphia, PA (US)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 830 days.

(21) Appl. No.: **09/653,381**

(22) Filed: **Sep. 1, 2000**

#### Related U.S. Application Data

(63) Continuation-in-part of application No. 09/605,522, filed on Jun. 27, 2000, now Pat. No. 6,904,610, and a continuation-in-part of application No. 09/585,263, filed on Jun. 2, 2000, and a continuation-in-part of application No. 09/583,388, filed on May 30, 2000, and a continuation-in-part of application No. 09/542,433, filed on Apr. 4, 2000, now abandoned, and a continuation-in-part of application No. 09/359,560, filed on Jul. 22, 1999, now abandoned, and a continuation-in-part of application No. 09/359,559, filed on Jul. 22, 1999, now abandoned.

(60) Provisional application No. 60/205,939, filed on May 18, 2000.

(51) Int. Cl.  
**H04N 5/455** (2006.01)  
**G06F 17/30** (2006.01)

(52) U.S. Cl. .... **725/53; 725/57; 725/40; 725/47; 725/61; 707/3**

(58) Field of Classification Search ..... **725/37-61; 707/3**

See application file for complete search history.

(56) **References Cited**

#### U.S. PATENT DOCUMENTS

4,290,063 A 9/1981 Traster ..... 340/723

(Continued)

#### FOREIGN PATENT DOCUMENTS

EP 0/838958 A1 4/1998

(Continued)

#### OTHER PUBLICATIONS

Ludvig et al., Method and Apparatus for Encoding a User Interface, Feb. 3, 2000, International Publication Number: WO 00/05890.\*

Primary Examiner—Kieu-Oanh Bui

(74) Attorney, Agent, or Firm—Patterson & Sheridan, LLP

(57) **ABSTRACT**

Techniques for searching a program guide database. In accordance with a method, one or more search criteria (e.g., keywords) are received and a request for a search is then sent, along with the search criteria, to a head end of an information distribution system. In response, one or more search results are received from the head end. In this server-centric system, the program guide database is searched at the head end. The search results can be displayed on one search result IPG page (or more, if necessary) or displayed one at a time on the respective IPG page that includes the search result. Upon receiving an indication that a particular search result has been selected, one or more streams associated with the selected search result can be retrieved and decoded to recover the selected program, which can then be displayed.

24 Claims, 33 Drawing Sheets

